



Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

NOV 1 2004

Vanguard Medical Concepts, Inc.
c/o Ms. Heather Crawford, RAC
Director of Regulatory Affairs
5307 Great Oak Drive
Lakeland, FL 33815

Re: K023180 Supplemental Validation Submission
Trade Name: Vanguard Reprocessed EPT Polaris™ Dx Diagnostic EP Catheters,
Models 5570S, 5572S, 5573S, 5574S, 5577 and 5579
Regulation Number: 21 CFR 870.1220
Regulation Name: Reprocessed Electrode Recording Catheter
Regulatory Class: II (two)
Product Code: NLH
Dated: September 23, 2002
Received: September 24, 2002

Dear Ms. Crawford:

The above-referenced premarket notification (510(k)) was cleared by the Office of Device Evaluation (ODE) on December 12, 2002. We have received your supplemental validation data as required for reprocessed single-use devices by the Medical Device User Fee and Modernization Act of 2002. After reviewing your supplemental validation data, we have determined the devices listed above are substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market these devices, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your devices are classified (see above) into either class II (Special Controls) or class III (PMA) they may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your devices in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your devices comply with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's applicable requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

The FDA finding of substantial equivalence of your devices to legally marketed predicate devices results in classification for your devices and thus, permits you to legally market the devices. This letter will allow you to continue marketing the devices listed in the enclosure accompanying this letter.

If you desire specific advice for your devices on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4646. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "B. Zuckerman for".

Bram D. Zuckerman, M.D.
Director
Division of Cardiovascular Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosures

Indications for Use

510(k) Number: K023180

Device Name: Vanguard Reprocessed Diagnostic Electrophysiology Catheters

Indications for Use:

This catheter is intended for temporary intracardiac pacing and recording during electrophysiology studies, e.g. evaluation of arrhythmias or cardiac mapping.

(PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON ANOTHER PAGE IF NEEDED.)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use ☒

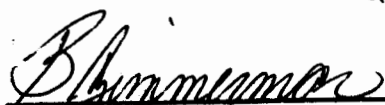
OR

Over-the-Counter Use ☐

(Per 21 CFR 801.109)

(Optional Format 1-2-96)

Division of Cardiovascular Devices
510(k) Number K023180



(Division Sign-Off)

Division of Cardiovascular Devices

510(k) Number 111104

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510(k) Summary of Safety & Effectiveness

Submitter	Vanguard Medical Concepts, Inc. 5307 Great Oak Drive Lakeland, FL 33815	DEC 12 2002
Contact	Mike Sammon, Ph.D. Director, Research and Development (863) 904-1628 (801) 327-3339 (facsimile) msammon@safe-reuse.com	
Date	September 23, 2002	
Device	<ul style="list-style-type: none">• Trade Names: Vanguard Reprocessed Diagnostic Electrophysiology (EP) Catheters• Common Name: Electrode Recording Catheter, Diagnostic Electrophysiology (EP) Catheter• Classification: 21 CFR 870.1220 – Class II – Catheter, Electrode Recording, or Probe, Electrode Recording• Product Code DRF	
Predicate Devices	EP Technologies™ Polaris™ Steerable Diagnostic Catheters (K924163) Vanguard Reprocessed Diagnostic EP Catheters (K012687, K012688)	
Indications for Use	This catheter is intended for temporary intracardiac pacing and recording during electrophysiology studies, e.g. evaluation of arrhythmias or cardiac mapping.	
Contra-indications	<ul style="list-style-type: none">• Patients with active systemic infection.• Patients with prosthetic valves.• Retrograde approach in patients with aortic valve replacement.• Transseptal approach in patients with left atrial thrombus or myxoma, or interatrial baffle patch.• Diagnostic EP catheters are not intended for electrical ablation.• Diagnostic EP catheters are not intended for coronary artery mapping.	

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510(k) Summary of Safety & Effectiveness, Continued

Device Description	<p>Reprocessed diagnostic electrophysiology catheters are constructed of a hollow polymer shaft approximately 92 to 125 cm in length that terminates with a hand piece or connector. A range of diameters is available; the most clinically utilized sizes are 5 – 7 French. Various configurations of distal platinum alloy electrodes are wired to a proximal connector for bi-directional transmission of electrical signals (pacing and recording). The connector is attached to an interconnecting cable that interfaces with various standard types of sensing, recording, stimulation and pacing equipment. The catheters are available with various distal curves, either fixed or steerable for remote manipulation of the distal tip segment that facilitates precise positioning of the electrode array.</p> <p>The catheters are also available in a variety of electrode configurations, connector compatibility and torque-transmitting properties that are selected by the clinician based on preference and/or indication. The shaft polymer is manufactured with additives (typically barium sulfate) that enhance the catheter's radiopacity to enable positioning under fluoroscopic guidance. No lumens of catheters reprocessed by Vanguard are open to the patient bloodstream.</p> <p>Vanguard collects previously used diagnostic EP catheters from healthcare facilities; cleans, inspects, tests, applies a unique serial number, packages, labels and sterilizes each device for return to the healthcare facility for an additional clinical use.</p>
Technological Characteristics	<p>Vanguard Reprocessed Diagnostic EP Catheters are essentially identical to the Original Equipment Manufacturer (OEM) devices. No changes are made to the device materials or specifications and the reprocessed catheters possess identical technological characteristics.</p>
Test Data	<p>Cleaning, sterilization, and packaging validations; and performance and biocompatibility testing demonstrate that the reprocessed devices perform as intended and are safe and effective.</p>
Conclusion	<p>Based on the information provided herein and the 510(k) "Substantial Equivalence" Decision Making Process Chart, we conclude that the Vanguard Reprocessed Diagnostic EP Catheters are substantially equivalent to their predicate devices under the Federal Food, Drug and Cosmetic Act.</p>